

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing Of Claims:

Claim 1 (currently amended). A mole detector, comprising:

apparatus for placement over a portion of a soil surface overlaying a portion of a mole tunnel, including a sensor and circuitry for detecting movement of the portion of the soil surface indicative of passage of a mole through the underlying tunnel portion and generating a signal representative thereof;

wherein the apparatus comprises a concave shell having elongate lower edge portions and an upwardly extending semi-cylindrical inner surface extending between the lower edge portions defining a space, the lower edge portions being positionable on the soil surface adjacent opposite sides of the portion of the soil surface overlaying the mole tunnel, respectively, such that the portion of the soil surface overlaying the mole tunnel is located in the space;

wherein the shell includes a cavity in an upper portion of the inner cylindrical surface connecting with the space, and the sensor is located in the cavity so as to project downwardly into the space in a position over the portion of the soil so as to be contacted by upward movement thereof; and

wherein the sensor includes an actuator disposed in the space and movable by contact with the upwardly moving soil to actuate a signal generator for emitting a signal indicative of the movement.

Claim 2 (cancelled).

Claim 3 (cancelled).

Claim 4 (cancelled).

Claim 5 (currently amended). The mole detector of claim 1, wherein the ~~sensor includes an actuator which signal generator~~ operates a transmitter to emit a signal when movement of the portion of soil is detected, and the mole detector additionally includes a receiver separate from the transmitter operable for receiving the signal and responsively emitting a second signal.

Claim 6 (original). The mole detector of claim 5, wherein the actuator comprises a magnetic proximity switch.

Claim 7 (original). The mole detector of claim 5, wherein the actuator includes a movable member that projects downwardly into the space and at least one element allowing adjusting a position of the movable member in the space.

Claim 8 (currently amended). A mole detector, comprising:

a concave shell including spaced apart lower edges extending between opposite open ends, the lower edges being positionable on a soil surface on opposite sides of soil above a mole tunnel such that the concave shell overlays the soil above the tunnel;

a sensor operable for detecting movement of the soil underlying the shell indicative of movement through or presence of a mole in the tunnel below and changing a state;

a transmitter operable when the state is changed for transmitting a signal representative thereof; and

a receiver operable for receiving the transmitted signal and outputting a signal indicative thereof; and

wherein the sensor includes an actuator which extends into the space between and just above the lower edges in a position to be contacted by upward movement of soil located between the upper edges.

Claim 9 (currently amended). The mole detector of claim 8, wherein the space between the lower edges of the concave shell has a horizontal extent between the lower edges which is at least about 3 inches.

Claim 10 (cancelled).

Claim 11 (original). The mole detector of claim 8, wherein the sensor comprises a magnetic proximity switch.

Claim 12 (original). The mole detector of claim 8 wherein the transmitter is operable when the state is changed for transmitting the signal representative thereof over the atmosphere to the receiver.

Claim 13 (currently amended). An animal detector, comprising:
a concave shell including spaced apart lower edges extending between opposite open ends, the lower edges being positionable on a soil surface on opposite sides of soil above a tunnel such that the concave shell overlays the soil above the tunnel;
a detector operable for detecting movement of the soil underlaying the shell indicative of movement through or presence of an animal in the tunnel below and changing a state operates a switch;
a transmitter operable when the state is changed switch is operated for transmitting a signal representative thereof; and
a receiver operable for receiving the transmitted signal and outputting a signal indicative thereof; and
wherein the switch is a magnetic proximity switch operable by movement of an actuator of the detector in proximity thereto as a result of movement of the underlying soil.

Claim 14 (cancelled).

Claim 15 (cancelled).

Claim 16 (new). A mole detector, comprising:
apparatus for placement over a portion of a soil surface overlaying a portion of a mole tunnel, including a sensor and circuitry for detecting movement of the portion of the soil surface indicative of passage of a mole through the underlying tunnel portion and generating a signal representative thereof;

wherein the signal generator operates a transmitter to emit a signal when movement of the portion of soil is detected, and the mole detector additionally includes a receiver separate from the transmitter operable for receiving the signal and responsively emitting a second signal; and

wherein the actuator includes a movable member that projects downwardly into the space and at least one element allowing adjusting a position of the movable member in the space.

Claim 17 (new). The mole detector of claim 16, wherein the apparatus defines a space and a cavity connecting with an upper portion of the space, and the sensor is located in the cavity so as to project downwardly into the space in a position over the portion of the soil so as to be contacted by upward movement thereof.

Claim 18 (new). The mole detector of claim 17, wherein the sensor includes an actuator disposed in the space and movable by contact with the upwardly moving soil to actuate the signal generator.

Claim 19 (new). The mole detector of claim 16, wherein the actuator comprises a magnetic proximity switch.